

"Continuous News Service  
Since 1881"

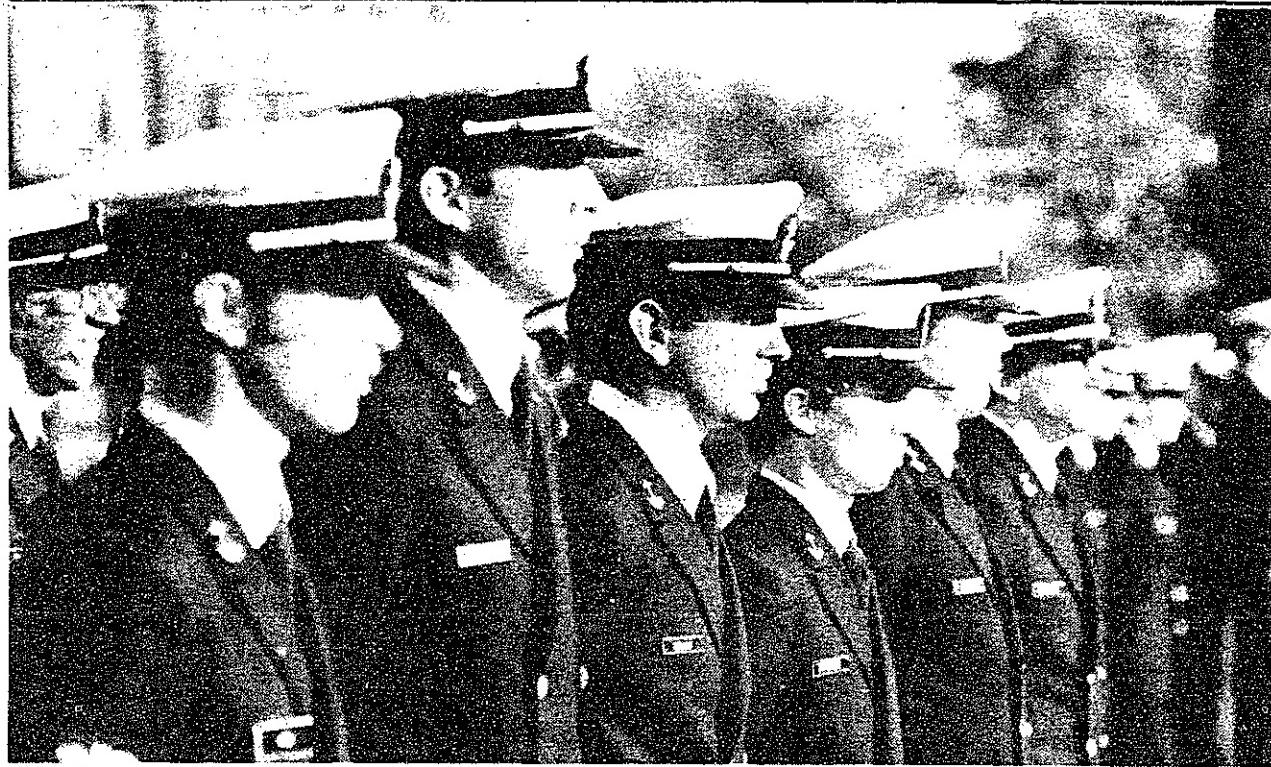
# The Tech

How many people really  
graduate from MIT?  
See story on page 5

VOLUME 95, NUMBER 43

MIT, CAMBRIDGE, MASSACHUSETTS

TUESDAY, OCTOBER 28, 1975



A. David Bocum

Naval ROTC Midshipmen. The program, admitting women, found no need for off-campus admissions.

## ROTC program grows here

By Eileen Mannix

MIT's Air Force ROTC program now includes students from Wellesley College and Northeastern University. One Wellesley student and 14 Northeastern students have chosen to take advantage of this extended program.

Lt. Col. Larry Schwartzman told *The Tech* that Air Force ROTC has been open to Wellesley students since the start of the Wellesley-MIT exchange. He said that the reason that only a few females have been recruited to date may be due in large part to the fact that flight training is not offered to Air Force women.

Since women are legally prohibited from flying in combat zones, the Air Force would find it impractical to train female pilots and navigators who could only fulfill restricted tours of duty in the air. Schwartzman said, however, that if the law is changed the Air Force will accordingly alter its current policy of denying women their wings.

The prohibition on flying hasn't stopped four MIT women and one Northeastern female student from joining the Air

Force ROTC program, Schwartzman said.

The agreement which permits Northeastern students to participate in Air Force ROTC was signed in June of this year. Recruits have the option of a two-year or a four-year program. The date on which the agreement came into effect was too late to spark appreciable interest in the two-year program, said Schwartzman, because it requires an initial six-week training period which is usually held during the summer, and too many potential recruits had already made definite commitments for the summer months.

The response has been significantly better this fall, according to Schwartzman, and has brought the number of Northeastern participants to 14.

The decision to open up Air Force ROTC to Northeastern students was caused, Schwartzman said, by declining enrollment from among MIT students. "We told the Institute that unless we broadened our base of recruiting, the unit here might be forced to fold," he said. "At the same time we were getting several requests from North-

eastern students interested in our program, and so MIT allowed us to start recruiting at Northeastern."

The fact that students from other schools must commute to MIT for their ROTC requirements is a deterring factor, Schwartzman said, particularly for Northerners, who do not have anything similar to the MIT-Wellesley buses. Said Schwartzman, "The people who make the trek over here are bound to be pretty dedicated."

He added that the Air Force Office is looking forward to more Northeastern students making the trek as time goes on, and expects that with advance notice, more students will now be able to include the six-week training period in their summer plans.

Neither the MIT Army or Naval ROTC programs have instituted similar expansions onto other campuses, Schwartzman said. "Army already has a unit at Northeastern, and there apparently hasn't been any interest expressed at other schools (such as Boston and Harvard universities) where there are no programs," he said.

## "We do more than stick out our arms"

By Mike McNamee

MIT doesn't just have the biggest institutional blood drives in New England every year.

It has the best-organized drives, which involve more members of the community than at any other large institution in this area which holds blood drives.

"At MIT, we do the advance work, the scheduling, the checking-in, the serving of the cookies and drinks, and a lot of work that other places leave to the Red Cross workers," said Jean Hunter '76, who as Blood Drive Chairperson is the No. 1 member of the "we" which includes Technology Community Association, Technology Matrons, and a network of helpers, solicitors, and other people spread all over campus.

"At other schools, all they have to do is stick out their arms."

\* \*

Blood Drives are part of the annual topography of the Institute, coming around as regular as clockwork — the Labor Day weekend mini-drive, the IAP Drive, the big Spring Drive and, in the last couple of years, the eight-day Fall Drive. They're so regular that they almost slip by unnoticed, despite the waves of publicity, solicitation, and pressure that sweep out of Blood Drive Central on the fourth floor of the Student Center. Editors yawn when Blood Drives are mentioned; you can count on Blood Drives, they're just not "newsworthy."

But behind the drives is a massive organizational effort, an effort

(Please turn to page 2)

## President of ASA removed from office

By Gerald Radack

In an unprecedented move, the Association of Student Activities (ASA) removed its president, Forrest Krutter '76 from office last week after trying and convicting him for dereliction of duty.

Krutter was removed from office by a vote of 12 to 4 last Thursday at a meeting of the ASA, which is made up of representatives of various undergraduate activities.

Michael Matzka '76 was elected the new president of ASA at the same meeting.

There were two charges leveled against Krutter, only one of which was ever brought up at the meeting last week.

The first charge — the only one discussed at the meeting — was that Krutter left Cambridge for the three weeks preceding the Activities Midway, which he was supposed to organize, without making arrangements for other people to take over the planning.

According to Robert Resnick '77, an ASA Executive Committee member, "Krutter was out of town until four days before the Midway. Nobody on the ASA Execcomm or the R/O Committee knew what was going on."

Resnick said that a meeting was finally held the Friday before the Midway at which time members of the ASA Execcomm and the R/O Committee split up responsibilities for the Midway.

One of the things Krutter was supposed to do was to order tables for the Midway, according to LSC chairman Michael Dornbrook '76, who noted that it would have been too late to order the tables four days before the event, when Krutter got back.

The motion to impeach Krutter was made by Dornbrook at an Oct. 2 meeting of the ASA after Krutter made what Dornbrook considered to be an unconstitutional ruling.

"Krutter had decided that an amendment (to the ASA constitution) could be discussed and passed without being published before the meeting," Dornbrook said. "I pointed out that this was unconstitutional and rather gross," he added.

Although Dornbrook's appeal of Krutter's ruling was defeated by a vote of 10-10 "because there were enough people who wanted to change the constitution," Dornbrook later moved that Krutter be impeached, and the motion passed.

The "subversion" of the constitution at the Oct. 2 meeting became the basis for the second charge against Krutter. This charge also cited Krutter's handling of the "Ergo space dispute" last year.

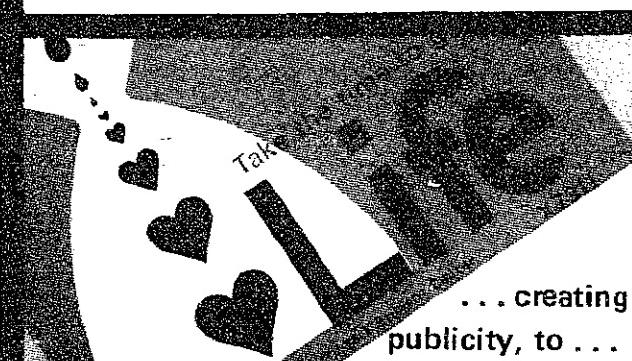
The space dispute resulted from apparent attempts to take away the office space assigned to the newspaper *Ergo*. The dispute was touched off when the ASA sent a letter to *Ergo* saying that they would have to re-apply for office space at the space hearing held every spring, and would not be given preference even though they already occupied the office.

When *Ergo* tried to appeal this decision, Dornbrook said, Krutter ruled that no appeal was allowed because "no decision had been made," a ruling that Dornbrook termed in violation of the ASA constitution.

The charge states that Krutter "singled out *Ergo* for treatment which he did not apply to other organizations."

The Corporation Visiting Committee to the Dean for Student Affairs Office will hold an open meeting at 8 pm Thursday in Student Center Room 400 to discuss student life at MIT. The meeting will help the committee set its agenda for its formal meetings, which will be held in January. All students are welcome.

Every MIT Blood Drive battle plan must take into account all the money, headaches, labor, and time involved in any large project, from . . .



Please circle the times or blocks of time you allow at least an hour for the entire process. To be scheduled for the same time as someone else, please note that: Thursday, October 30, and Monday, November 3.	
Wednesday	Wednesday Evening
Oct. 29	Oct. 30
9:45am	9:45pm
10:00	10:00
10:15	10:15
10:30	3:00
	3:15
	3:30
	3:45
	4:00
	4:15
	4:30
	4:45
	5:00
	5:15

... finding volunteers, to ...	
REMARKS	
QUESTION	ANSWER
1. TROUBLE	YES
2. SERIOUS INJURY	NO
3. TUBERCULOSIS	NO
4. ASTHMA	NO
5. COLD	NO
6. DIABETES	NO
7. LIVER DISEASE	NO
8. RHEUMATIC	NO
9. CHOLESTEROL	NO
10. SHORTNESS OF BREATH	NO
11. PAIN IN BACK	NO
12. HIGH BLOOD PRESSURE	NO
13. OTHER	NO
14. HYPERTENSION	NO
15. DIABETES	NO
16. LIVER DISEASE	NO
17. RHEUMATIC	NO
18. ASTHMA	NO
19. COLD	NO
20. ALLERGY	NO
21. FEVER	NO
22. CONJUNCTIVITIS	NO
23. OTHER	NO



# Continuing education needed

By Gerald Radack

Visiting Professor Bertrand Schwartz stressed the need for continuing education and for education outside the classroom in a seminar on "Education in the Year 2000."

"If we take the idea that education must make people understand their environment and the changes in it, then we must provide a system of continuing education," Schwartz said.

Schwartz noted a difference between his concept of continuing education and what he called "recurrent education,"

which he defined as "people having to come back to school from time to time." He said that education can take place in the family, on the street, and in subways as well as in the classroom.

It is not enough, though, to offer education to adults on a continuing basis, Schwartz stated. "The school must go to the people," and must be available "when the workers are free and where they are free."

Schwartz pointed to a program in France which provided workers with "statutory study" — the money and time to stop

work and study for 40 hours a year. Very few people there take advantage of this opportunity, he said, because they would have to go to regular schools with traditional subject offerings, which would not be convenient or meet their needs.

In the area of secondary education, Schwartz called for an end to "channels" and to separate trade schools and "academic" schools. He said that all high school graduates should have trade skills, and pointed to a proposal in Germany that would have required all people entering college "to be able to hold a job."

He also suggested that students should have a three month period to talk to potential employers and unions in order to choose a career.

In calling for an end to "channels" in schools, Schwartz said, "we must reject all discrimination by failure."

"We must spend more money and more teachers" for people who are below average in achievement in order to achieve "equality of opportunity," Schwartz asserted.

## NOTES

\* "The Domestic Economic Crisis" will be the topic addressed by Frank Ackerman, co-editor of *Dollars and Sense*, a monthly bulletin of economic affairs published by members of the Union of Radical Political Economists, on Tuesday, Oct. 28, at 7:30pm in the West Lounge of the Student Center. This is the second of three talks on political economy in SACC's Social Issues Forum.

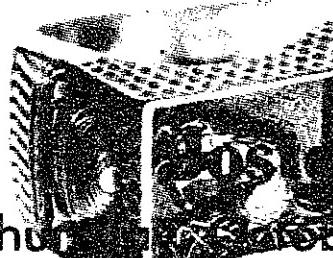
\* The Writing Program will hold its first-of-the-year, Halloween-style, gala Open Reading! Come, read your work, listen to others, partake of Halloween refreshments. Everyone is welcome, so join us on Thursday, October 30 from 3:30 to 6:30 in the Crafts library of Senior House. For more information call the Writing Program at x7894.

\* Tickets to the Boston Ballet's Nov. 6, 7, 8, and 9 performance are now available at the TCA office, Room 450 of the Student Center. Students with id's may purchase the tickets at a \$3 savings on the \$12.50 and \$10.50 tickets, and a \$2.50 savings on the \$7.00 tickets. The performance will feature the world premiere of the contemporary "Carmina Burana," a medieval spectacle choreographed by Lorenzo Montreal and accompanied by the Master Works Choral.

\* Director of Admissions Peter Richardson would like to encourage all MIT students who plan to apply for graduate work at the Institute during 1976 to apply by November 1 as an aid to the students involved, Department Graduate Offices and his own office staff.

\* The Humanities Department will sponsor a Poetry Reading Wednesday, October 29 at 7pm in 14E-304. Students are invited to attend.

## Class of 1977



**Ring Day**  
Thursday, October 30, 10am-3pm  
Lobby of Building 10

\$10 deposit required  
on new orders

## HEROISM OF A HIGH ORDER

*A Celebration of  
All Saints' Day  
by the Tech Catholic  
Community*

Friday, Oct. 31, 1975  
Chapel: 4:30pm and 5:15pm  
Saturday, Nov. 1, 1975  
Mezzanine Lounge: 11:15am



Visiting Professor Bertrand Schwartz

Recycled Clothing Compassionately Priced

Jeans	\$4.50	6.00	Leather jackets	\$18.35
Navy wool pants	\$8.00		Corduroy pants	\$4.50

**GREAT EASTERN**  
Trading Co.

49 RIVER ST. CENTRAL SO CAMBRIDGE

## HUMANITAS: AN EVOLVING PERSPECTIVE

**Ideas and Images  
of Humanity in the West**

Thursday, October 30  
Lecture Hall 9-150  
4:00-6:00pm

## The Copernican Revolution

Owen Gingerich, Professor of Astronomy and of the History of Science, Harvard University

Sponsored by the Technology and Culture Seminar at MIT

## THE PAULISTS

Missionaries to Modern America

Mail to:  
Rev. Frank DeSiano, C.S.P.,  
Room A-158  
PAULIST FATHERS  
415 West 59th Street  
New York, N.Y. 10019

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_

College attending \_\_\_\_\_

Class of \_\_\_\_\_

## Every guy should save this ad.

If the girl you're going with should ever want an abortion, you should be able to tell her about ZPG. We can help her get a legal, safe, inexpensive abortion. By an M.D. in a clinic or hospital.

If she has the abortion during the first 10 weeks of pregnancy, it will cost only about \$150. And no matter when she has it, there's no charge for our service.

So put this ad in your wallet or on the wall. So you know where to call: (212) 489-7794 Monday through Friday, between 10 a.m. and 5 p.m. New York time.

**Free Abortion Referral Service  
from ZPG-New York**

# Opinion

## Letter Discrimination Reply

To the Editor:

I do not intend to continue this debate over black admission policy throughout the school year, but I strongly feel that my letter last week, termed 'blatantly ridiculous' by Mr. Hampton, that represents my views and the views of many of the people I have spoken with, must be followed up and enlarged upon before it is allowed to die. This letter will also attempt to clarify the basic philosophical differences between us and thereby conclude this discussion.

My first reaction to Mr. Hampton's follow-up article was disappointment that he found it necessary to stoop to name-calling to defend his position. His response to two honest attempts at rebuttal was to call Ms. Kayton and myself "narrow, closed and bigoted" and included a sneer at "the precious few (?) other persons with similar beliefs." Fortunately, he did also write an intelligible rebuttal that defined his position better than his first column, permitting me now to deal with his arguments in a more exact way.

The ambiguity in this discussion is what constitutes qualification for admission to MIT. When I mentioned "underqualified persons" I had in mind the idea of the number of qualified persons being a function of the degree of quality, a combination of both potential and knowledge. (Mr. Hampton emphasizes just potential). And if the admissions office wants to take the "most qualified students available" it will simply choose a cut off point that gives them the necessary admission class size. In this sense a quota for any group would unquestionably lead to admission of "underqualified persons." (At no point are either of us questioning the criteria of the admissions office. We are both accepting that their judgments are valid.)

Mr. Hampton has increased the size of the "qualified applicant pool" to those with a given potential, regardless of school background. This would be a larger pool that could theoretically include more blacks, many of whom were just the victims of a poor school system.

He then asks: "Should such misfortunate persons be denied admission to MIT? Should MIT and the American society as a whole turn its back on potential contributors to society because of race, class or environment?" I answer yes to the first question and no to the second. These statements are not tautologies. My position is not inconsistent.

MIT is an institution of higher learning. Not only is the

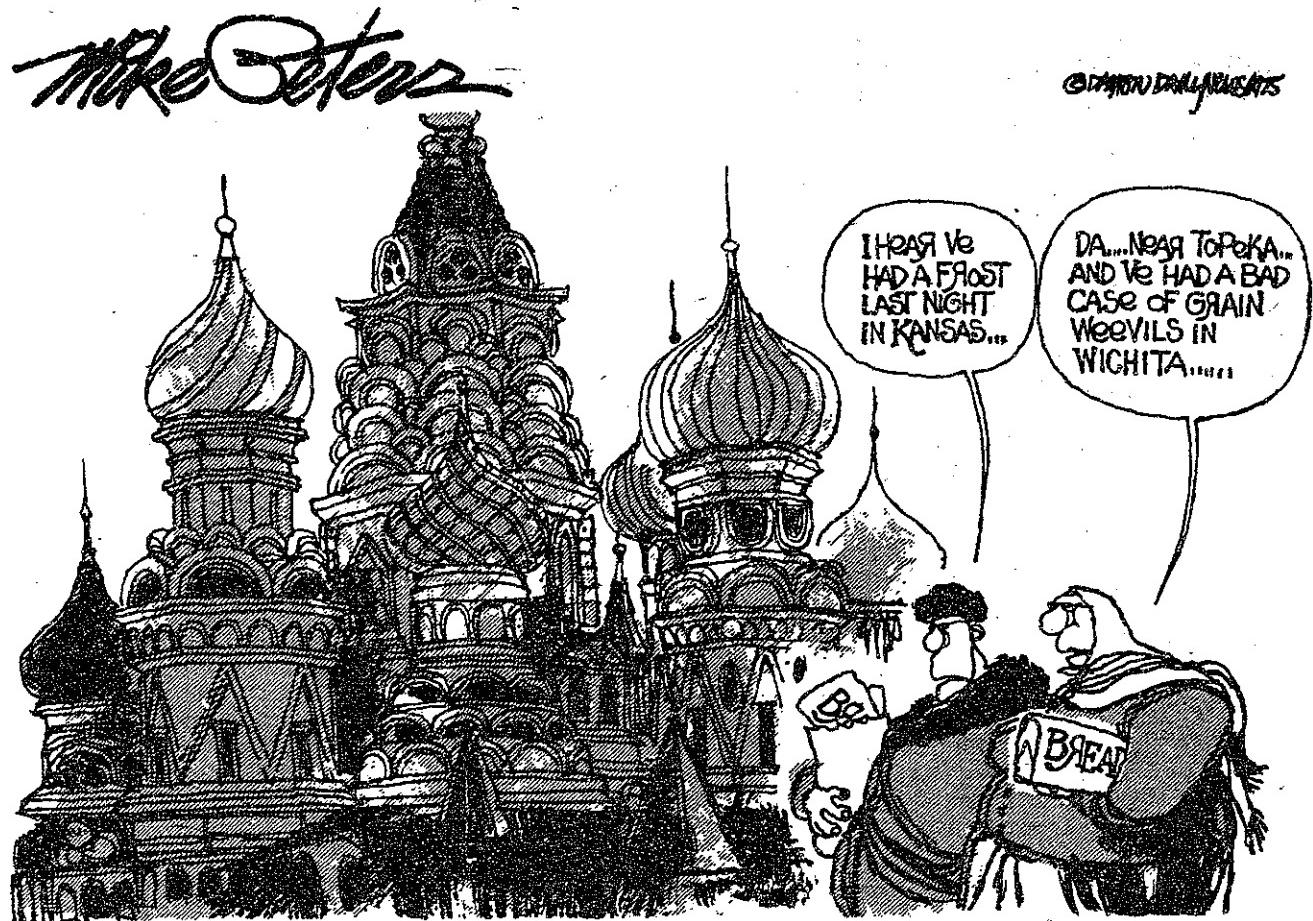
teaching geared to "college level" instruction, being one of the top universities in the country its standards are even higher than most. Therefore, when someone with the potential, but with a 7th grade education, knocks on the door for admission should he, for any reason, be admitted? If the public system is a failure for him then he must go to the private sector, a different high school, junior college or even another university to prepare for an MIT education. It seems like a waste of resources and time to have MIT engaged in teaching high school courses that could equally well have been taught at any number of other places, rather than concentrating in the area in which we have expertise. And why should such a person want to attend a school that is beyond his present capabilities and one of the most expensive in the country? Let him go elsewhere, and when he has the background (he won't lose his potential) MIT will welcome him with open arms and he will be at a stage where he can best advantage from what MIT has to offer. At worst I am suggesting a lag in the time he eventually graduates; and maybe not even in that since he still must make for his deficient background here or elsewhere. Rather than spending six frustrating years at MIT, why not two years at X junior college and four enjoyable years at MIT?

The last important point to be clarified is the question of priorities within the above guidelines. The MIT administration and Mr. Hampton are here in agreement, in opposition to me. They are both of the opinion that MIT should take potentially qualified blacks and patch-up their education here. Mr. Hampton feels that all such blacks should be accepted and berates the administration for not putting enough effort into that endeavor. ("I only request that none of the qualified applicants to whom admission to MIT (is) denied is from a minority group.") (emphasis mine)

This is his position, and may in fact be necessary to more than incrementally increase the number of blacks both at MIT and in science related fields. But we should not delude ourselves that this is equality, rather recognize that we are making a conscious policy decision in subsidizing the black community in its efforts to achieve affirmative action goals.

It is not that I am necessarily opposed to the support, but that I want it to be seen for what it is - and what it is not.

Jesse Abraham '77  
October 27, 1975



## Commentary

### Prospects for fusion hurt?

(The following "Commentary" was submitted by Chuck Stevens for the US Labor Party's Research and Development Staff. The opinions expressed here are those of the USLP, and not those of The Tech.)

By Chuck Stevens, et al.

Lyndon H. LaRouche Jr., 1976 Presidential candidate of the US Labor Party, announced recently conclusive evidence of an operational policy to systematically undermine controlled fusion research as the precondition for the discrediting and virtual extinction of the US fusion program. The Labor Party has called for a full Congressional investigation of this criminal sabotage by the Rockefeller-Ford Administration and is making available to the appropriate Congressional committees complete documentation - part of which appears below.

"The shift from a policy of retarding development to one of consciously forcing failure is now being implemented in order to eliminate the most obvious alternative to the manifestly insane Energy Independence Authority (EIA)," LaRouche said. "The EIA is the institutional base through which the demented Rockefellers hope to conjure up a multi-billion prop for their patently bankrupt holdings. The cost of such a scheme is nothing less than the final gutting of American industry and labor power."

The USLP sees the development of fusion - safe, cheap, and unlimited energy - as assuring the advance of the economic infrastructure necessary for the maintenance and development of the US which is the key sector in world development. Therefore it is no exaggeration to say that the planned gutting of fusion is Rockefeller and Company's most criminal act to date. In escalating looting demands from \$100 billion to \$800 billion, then several trillion for the EIA - as Vice President Rockefeller did in a recent speech - the world's most advanced work force would be reduced to the hand-squeezing of shale oil.

The essential feature of the operational policy to abort fusion research is the step-by-step procedure of cutting back and narrowing down the scientific base of development. The burden of achieving reactor conditions will then be left to one device, the Tokamak, which, as presently conceived, cannot

provide sufficient net energy density. In fact, it can be demonstrated that, despite significant research advances, this is true for all individual fusion devices presently under development.

All but one of the four major National Fusion Labs funded by the Energy Research and Development Administration and the three main-line approaches to magnetic confinement of fusion plasmas are being shifted into vague "technology" development projects:

- When its Ormak Tokamak is turned off in the near future, the Oak Ridge Lab in Tennessee will deal almost exclusively with engineering for Tokamak reactors: producing magnets, materials, and neutral beams for plasma heating.

- The Los Alamos lab in California was warned that Scyllac, the high beta toroidal theta pinch (a confinement scheme which makes efficient use of magnetic field energy) faces an immediate shutdown of ERDA funds.

- Despite major experimental breakthroughs recently achieved with the magnetic mirror machine at Lawrence Livermore lab in California, this device and the theoretical teams working on it are slated to become mere technology development adjuncts to the tokamak.

Even in the case of significant frontier secondary efforts such as the MIT Francis Bitter National Magnet Lab's high field Tokamak, the Alcator, there are plans to turn this project over to CIA-controlled MIT, downgrading work on this device to mere "educational" activities.

Although these policies are not yet fully implemented, the threatened and operational cutbacks have been sufficient to limit main-line research to one laboratory - Princeton - and one approach - the Tokamak.

At the same time, auxiliary experimental work designed to thoroughly examine theoretical hypotheses has been almost totally gutted over the last five years in order to make room for Tokamak development; research in new, exploratory approaches has been severely cut back in this period.

As for laser and electron beam pellet fusion, the inertial confinement of fusion plasmas, the Livermore Lab suddenly reversed the stated ERDA policy and refused to make available - even to other government labs

with security clearance (in this instance, Los Alamos) - copies of LASNEX, the most advanced computer code for simulating laser pellet fusion.

The Soviet-designed and Soviet-developed Tokamak is accepted as the most successful approach to efficiently confine thermonuclear grade plasmas. There is little doubt that within the next year, Soviet scientists working on the T-10 model at the Kurchatov Institute in Moscow will demonstrate that the Tokamak is scientifically capable of achieving "break-even" energy production, producing more energy than is required to construct the system. But as the Soviets note, the situation is paradoxical.

The Tokamak produces what is best described as "dirty plasma" so called because of impurities from the Tokamak walls, and poorly understood microprocesses. On the basis of existing, experimental and theoretical knowledge, the Tokamak will not be able to proceed much beyond a break-even point. The current behavior of tokamak plasma is unpredictable, and the situation is sure to worsen as previously uninvestigated phenomena such as trapped mirror modes and synchrotron radiation appear when fusion conditions are achieved in the Tokamak.

The underlying pathology, which Rockefeller's fusion sabotage aggravates in the American scientific community, is the belief that a crucial breakthrough can be accomplished by one individual or a single team led by one individual. By multiplying the same kind of experiment, this phony theory goes, computers can process numerical data and obtain the magical optimal conditions for a power reactor.

This kind of thinking, as the Labor Party has fully explained in its 1976 Presidential campaign platform, obstructs breakthroughs in science. The main-line approaches to CTR must take the form of experiments designed to push the boundaries of basic science, developing an atmosphere of creative work that allows for creative breakthroughs.

Rockefeller and his ERDA dupes know that by limiting CTR to one approach and virtually one laboratory, the program is assured of failure.

## The Tech

John J. Hanzel '76 - Chairperson  
Michael D. McNamee '76 - Editor-in-Chief  
Julia A. Malakie '77 - Managing Editor  
John M. Sallay '78 - Business Manager

Continuous News Service Since 1881  
Vol. XCV, No. 43 October 28, 1975

Third Class Postage paid at Boston, MA. The Tech is published twice a week during the academic year (except during MIT vacations) and once during the first week of August. Please send all correspondence to: P.O. Box 29 - MIT Branch, Cambridge, MA 02139. Offices at Room W20-483, 84 Massachusetts Avenue, Cambridge, MA. Telephone: (617) 253-1541. Subscription rates available upon request.

# Dropouts stay out, stats show

By Thomas Mayer

Dropping out of MIT is not only more common but apparently more permanent than many people believe.

Statistics from the Registrar's Office indicate that 14-18 percent of students admitted don't receive a degree from the Institute. The figures show that a sizable number of students withdraw from MIT, and, contrary to the common slogan claiming that withdrawals are temporary, the percentage of students withdrawn is stable or increases with time.

MIT officials can't explain what effect these figures have on the common assertion that anyone who is admitted is smart enough to get through MIT. Associate Dean for Student Affairs James J. Bishop estimates that about half of all withdrawals are for academic reasons, but he also estimates that most students who withdraw come back.

Jane Dickson, Assistant to the Chairman of the Committee on Academic Performance (CAP) has suggested that the Vietnam War may possibly have affected the statistics by keeping withdrawn students from returning to MIT. However, this explanation would also indicate a change in the number of students withdrawn after the collegiate draft deferment was cancelled in 1969. No such change is apparent.

Part of the problem with withdrawal statistics is that students withdraw in many ways outside of the formal process, and some of them don't show up on the statistics. In addition to withdrawing formally, students withdraw by dropping all of their classes, by not showing up for the next term, or by not completing the registration process. In the last case, some students "withdraw" after failing to pay tuition, and are then readmitted through the Dean's Office immediately after payment is made.

Statistics compiled by Kay

Hudock of Student Affairs give a grand total of 866 readmissions through both Student Affairs and the CAP between January, 1973, and October, 1975, but nobody knows how many of these readmissions are in response to same-term withdrawals such as the tuition case, withdrawals that don't show up on the Registrar's figures.

In general, no one has a firm explanation for why 14-18 percent of all students don't come back for a degree. Assistant Dean for Student Affairs Cleonne Turner is in charge of Student Counseling's first attempt to gather information on withdrawals or readmissions, but the study was slowed over the summer by questions of the amount of data required and the degree of computerization. The study may not be finished until next fall.

Most officials agree, however, that students leave the Institute of their own free will. The number of students requested to leave by the CAP has not exceeded 80 since a peak of 57 Negotiated Withdrawals and 26 Disqualifications in academic year 1970-71. In fact, the Committee has not issued a Disqualification — signifying permanent

separation from the Institute and appearing on external records as such, since Spring of 1974. The CAP officially dropped Disqualification as a possible action last year, relying completely on Negotiated Withdrawals which, while requesting the student to withdraw appear on external records as voluntary withdrawals. The CAP issued 72 Negotiated Withdrawals last year.

The CAP makes its decisions on Negotiated Withdrawals in two stages at the end of each term. The committee first reviews the academic record of every student in Institute Grades Meetings, taking minor actions such as Warnings at that meeting. Records of students who are possibilities for Negotiated Withdrawals is taken at the Deferred Action meeting. Any student under consideration for a negotiated withdrawal is asked to fully inform the CAP of any circumstances affecting his situation. Those students who are likely prospects for Negotiated Withdrawals receive a "hard" letter, stating that "on the basis of the information presently available to us, we find that it may be inadvisable for you to continue at MIT next term."

## Summary of CAP actions

FALL, 1972				SPRING, 1973				
	D	NW	W	TR	D	NW	W	TR
Freshmen	1	39	1043		Freshmen	9 <sup>*2</sup>	36	1031
2nd year	1	6	47	1067	2nd year	2	15	43
3rd year	2	7 <sup>*1</sup>	37	965	3rd year	2	6 <sup>*1</sup>	38
4th year		11	16	1062	4th year	8 <sup>*2</sup>	15	1111
TOTAL	3	25 <sup>*1</sup>	139	4137	TOTAL	4	38 <sup>*5</sup>	132
								4111
FALL, 1973				SPRING, 1974				
	D	NW	W	TR	D	NW	W	TR
Freshmen	1	28	888		Freshmen	8	33	902
2nd year	8 <sup>*3</sup>	50	1113		2nd year	12 <sup>*3</sup>	52	1122
3rd year	10 <sup>*1</sup>	29	990		3rd year	10 <sup>*4</sup>	31	950
4th year	6 <sup>*1</sup>	35	1087		4th year	3	9 <sup>*2</sup>	10
TOTAL	0	25 <sup>*5</sup>	142	4078	TOTAL	3	39 <sup>*9</sup>	126
								3871
FALL, 1974				SPRING, 1975				
	D	NW	W	TR	D	NW	W	TR
Freshmen	1 <sup>*1</sup>	39	1043		Freshmen	13 <sup>*3</sup>	36	1031
2nd year	7 <sup>*4</sup>	38			2nd year	12 <sup>*1</sup>	43	
3rd year	12 <sup>*3</sup>	49			3rd year	17 <sup>*7</sup>	30	
4th year	8 <sup>*5</sup>	43			4th year	7 <sup>*3</sup>	24	
TOTAL	0	28 <sup>*13</sup>	169		TOTAL	0	44 <sup>*14</sup>	133

D — Disqualified  
NW — Negotiated Withdrawal  
W — Warning  
TR — Total number of students reviewed  
  
\* — Students voted a Negotiated Withdrawal who must apply for readmission through the CAP

Perceptive, imaginative students needed to contribute questions to new

## INTERACTIVE LECTURES

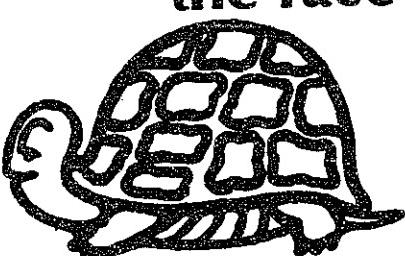
Interesting work, at your convenience, good pay. For further information, call Karen Houston at 864-6000, x2800.

**STUDENT REPRESENTATIVE**  
National Importer requires campus representation to distribute, promote and sell financial/statistical and scientific electronic calculators. Excellent program and commissions. Inquiries: DIECO, C/O W. Ridge, Director, P.O. Box 1823, FWB, Fla 32548.

**RECORD BUYER** Must know Rock-Jazz & Current Music. You buy used records for me. Part-time, work on your own. @ \$200.00 per wk. for strong initiative. Call 661-7869 Camb. Mass.

Hi-Fi components for sale, 25-50% off on most brands. All components in factory sealed cartons with cards. Full warranty; one day delivery, 30 day exchange on defective units. Call Bob, 253-4242 (keep trying).

Get some experience. Earn some money. Help out The Tech in the advertising department. Call Joel at 253-1541.

**Help win the race**  
  
**MARCH OF DIMES**

## Atomic Ltd. Inc. Welding and Fabrication

### Within walking distance of MIT

All Metals including Exotic Metals  
Vacuum Chambers and Systems  
Prototypes and General Fabrication  
Machine Shop Facilities

Fabricators of "Rector".

Many MIT Departments and Labs have used our services for over 10 years.

27 Tudor St., Cambridge, MA 876-8530

## How many finish? \*

CLASS OF '68	3 YEARS	4 YEARS	5 YEARS	6 YEARS	7 YEARS
Undergraduate	86%	14%	5%	3%	2%
Graduated	2	72	81	83	84
Withdrawn	12	14	14	14	14
CLASS OF '69					
Undergraduate	87	22	6	3	1
Graduated	1	64	79	83	85
Withdrawn	12	14	15	14	14
CLASS OF '70					
Undergraduate	85	24	6	3	2
Graduated	1	61	76	79	80
Withdrawn	14	15	18	18	18
CLASS OF '71					
Undergraduate	86	22	4	2	
Graduated	2	64	80	82	
Withdrawn	12	14	16	16	
CLASS OF '72					
Undergraduate	84	18	6		
Graduated	2	66	78		
Withdrawn	14	16	16		
CLASS OF '73					
Undergraduate	80	16			
Graduated	5	69			
Withdrawn	15	15			
CLASS OF '74					
Undergraduate	79				
Graduated	8				
Withdrawn	13				

\*Percentage of students who have graduated, withdrawn, or who are still undergraduates in each year after admission

## SKUFFLE

A FREE HALLOWEEN PARTY

UNLIMITED BEER

LIVE BAND

NOV. 1

at

PKS 530 Beacon St.

MIT or Wellesley ID

# Would a Two-Year Scholarship Worth Up to \$10,000 Interest You?

## An Opportunity for 450 Highly Qualified Sophomores

If you're the kind of person we're looking for, you've already started to think about what you'd like to do after graduation.

If a scholarship leading to a career as an Officer in the U.S. Navy appeals to you, you'll find this message well worth reading.

## Two-Year Full Scholarships

The opportunity is very attractive. If you're selected, we'll provide full tuition during your Junior and Senior years, pay for your books and educational fees, and give you \$100 a month for 10 months each year to help cover your living expenses.

There are two different programs you can apply for. The first is the Nuclear Propulsion Candidate Scholarship Program (NPCS). To qualify, you must have one semester each of calculus and physics (or two semesters of calculus) and have a B-minus average or better. It is open to men only.

The other program is the Two-year NROTC Scholarship Program. The only difference in the qualifications is that you must have a C average (2.3 out of 4.0) or better. It is open to men and women.

For both programs, you'll need to pass Navy qualification tests. And, quite frankly, it will help if your major is math, physical science, or engineering.

## The Curriculum

After you're accepted, you begin with six weeks of training next summer at the Naval Science Institute at Newport, R.I. During your final two years of college, you take several required courses in math, physics, and Naval Science. You also go on a summer cruise prior to your Senior year. (Of course, you're paid for all your summer duty.)

## A Challenging Job

Upon graduation, you are commissioned as an Officer in the U.S. Navy. And from then on your career can take you anywhere in the world, in a variety of fulfilling jobs.

Those who apply for the NPCS Program have a particular challenge ahead of them: The Navy's Nuclear Power Program. Not everyone who applies makes it: the men in charge of more than two thirds of our country's nuclear reactors must be a very special breed. Final acceptance into the Navy's Nuclear Power Program is determined during your Senior year after an interview in Washington with the Director, Division of Naval Reactors.

A two-year scholarship worth up to \$10,000. A unique opportunity to serve as an Officer in the U.S. Navy. You'll want to act now. The deadline for acceptance is May 1, 1976—and once the quotas are filled, you'll have lost your chance to earn yourself a scholarship.

If you think you've got what it takes to qualify, fill out and mail the coupon below, contact either your local Naval Recruiting District or the Professor of Naval Science on your campus, or call 800-841-8000, toll-free, anytime.

## The Navy

A 805

MAIL TO: Capt. H.C. Atwood, Jr., U.S. Navy  
NAVY OPPORTUNITY INFORMATION CENTER  
P.O. Box 2000  
Pelham Manor, N.Y. 10803

Dear Sir:  
I am a College Sophomore. Please send me more information on the two-year scholarships available. I am interested primarily in:

- Two-year NROTC Scholarship Programs  
(including nuclear option). (OK)  
 General NROTC information. (OT)

NAME (Print) \_\_\_\_\_ first \_\_\_\_\_ last \_\_\_\_\_

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_

ZIP \_\_\_\_\_ DATE OF BIRTH \_\_\_\_\_

PHONE (\_\_\_\_\_) \_\_\_\_\_

[ ] COLLEGE \_\_\_\_\_ [ ] GRAD. DATE \_\_\_\_\_

[ ] ACADEMIC AVERAGE \_\_\_\_\_ [ ] MAJOR \_\_\_\_\_

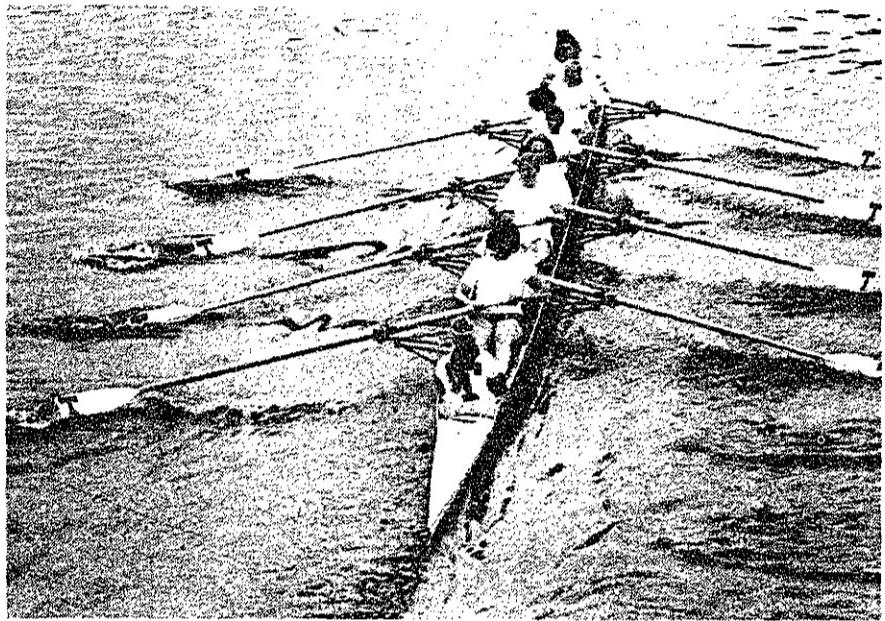
I don't want to wait. Call me at the number above. (OK)

If you prefer, you can call us toll-free at 800-841-8000. In Georgia, call 800-342-5855. In Alaska, call collect—272-9133.



This past Sunday saw hundreds of students sweating, splashing, and generally enjoying themselves in the annual Head-of-the-Charles Regatta. This coming Friday's *The Tech* will contain a complete summary of this year's action.

Photos by Dave Green



**Celebrate Halloween  
On October 30 At**

**DIMPLES**

**COSTUME PARTY**

9 PM. 'til...

Prize for the Best Costume  
Surprises & Prizes!  
ADMISSION \$1.00

No discounts or specials will apply on this date.

### Disguise Thyself.

Peabody — Routes 1 & 128N — 535-0570  
Newton — 1114 Beacon Street at 4 Corners — 965-3530  
Lawrence — 75 Winthrop Avenue (Route 114) — 687-1191  
Randolph — 493 High Street (Routes 28 & 128) — 986-4466

### Sunrise Semester (A mini-lesson in Tequila mixology.)

Lab work: Mix 4 oz. of orange juice with 1½ oz. Tequila in a glass with ice. Pour in ¾ oz. Giroux Grenadine.

Results: The Tequila Sunrise. Now stir the Sunrise and enjoy it.

Final: O.J. - 30%. 10 points for using concentrate, 20 points for regular, 30 points for freshly squeezed.

Tequila - 40%. 40 points for the best Tequila, 50 for making your own.

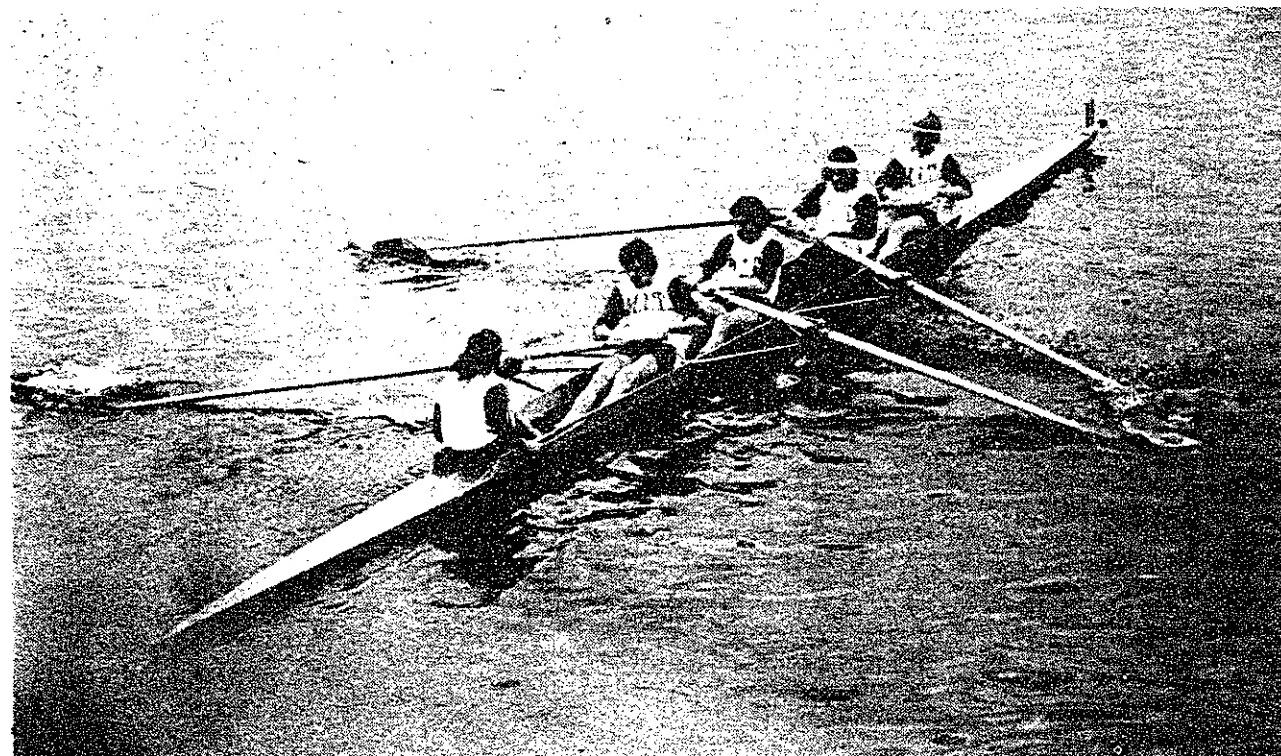
Grenadine - 30%. No points for ketchup or tomato juice.

30 points for Giroux Grenadine.



For a free booklet on mixology write: GIROUX, P.O. Box 2186G, Astoria Station, New York, N.Y. 11102. Giroux is a product of A-W BRANDS, INC. a subsidiary of IROQUOIS BRANDS LTD.

# Sports



An MIT lightweight four with coxswain (one of 22 shells entered by Institute-affiliated oarspeople) competes in Sunday's eleventh annual Head-of-the-Charles regatta. Although the four did not place in the top ten, many MIT crews were successful. For more photos, see page 7.

## Brandeis outruns cross-country

By Dave Dobos

The MIT cross country team defeated Boston University and Bentley while losing to Brandeis Saturday at Franklin Park. In action last Tuesday the Engineers placed fifth in the Greater Boston Championships.

The quadrangular contest over the weekend completed MIT's dual meet season with a record of 8-4. The Brandeis team won the race with a low score of 27. The Engineers followed with 53 and Bentley (60) and BU (93) trailed.

Winning by over 130 yards, Frank Richardson '77 paced to his fifth straight dual meet victory, finishing the season with an unblemished record. Over the past two years he has only lost once in dual meet competition.

As a whole, however, the Engineers ran quite uninspiringly. Had it not been for the heroics of freshman Barry Bayus (third for MIT, 12th overall), the squad would have lost to

Bentley as well. Chris Svendsgaard '78, Steve Keith '77, and senior captain Courtney McCracken rounded out the scoring five in unimpressive times of 26:35, 26:45, and 26:49, respectively. With the exception of seniors Jim Walton and Dave McDonough who, in their last career dual meet appearances, ran personal bests, the rest of the varsity eleven performed inadequately also.

The Brandeis squad raced without the presence of its top four runners, but still managed to hand its foes a most convincing defeat. The Judges are currently rated third among the nation's Division III colleges and are a good bet to capture the National Championships which they will host at Franklin Park on November 15.

In the GBC's, MIT missed fourth place by a single point as Northeastern literally ran away with the championship. Brandeis surprised Harvard for second.

Boston College placed fourth with Tufts and BU trailing MIT. Richardson raced to eighth to lead the Engineers.

Saturday, MIT hosts the Eastern Championships at Franklin Park. All the small colleges in New England will compete. This is the first of three consecutive weekends of championship meets climaxing with the Nationals.

At the start MIT brought the ball upfield easily, but soon

## Hockey team going club on one-year trial basis

By Gordon Magonet

(Gordon Magonet '76 is a member of MIT's hockey team.)

The MIT athletic department, acting on the recommendation of head coach Wayne Pecknold and the support of the players, has decided to change the status of MIT's hockey program from a varsity to a club sport, on a one year trial basis.

The primary reason for the change was that MIT has had little success against its opponents for the past few years, losing all of its games the last two seasons. MIT's recruiting ban has placed limitations on the quality of players available, while other schools have been able to upgrade their programs substantially by luring high school talent to play for them.

The decision will make all MIT students eligible to play intercollegiate hockey, not merely undergraduates.

It is hoped that this will improve the quality of the pool of players trying out and will increase the competition among players trying to make the team.

A minimum of 50% of the players on the top team will be undergraduates under the new plan, but all undergrads who do not make the first team will be put on the junior varsity squad with the understanding that they may be called to play for the first squad at any time during the year.

Another change this year will be the revision of the schedule, as several of the teams that beat MIT by lopsided scores last year have been dropped to make room for more comparable opponents.

Should the changes made this year prove favorable to the MIT hockey program as a whole, they may be made permanent.

## Springfield steadiness stops soccer squad, 4-0

By Gregg Fenton

(Gregg Fenton '77 is the MIT varsity soccer manager.)

The MIT varsity soccer team was overmatched by a New England-ranked Springfield College squad Friday night, losing 4-0. Although MIT showed no lack of effort, the better skilled home team controlled the ball and kept play out of its own end.

At the start MIT brought the ball upfield easily, but soon

Springfield took control. The wide field allowed a lot of movement while the ball did not move up or downfield appreciably.

After several outside shots, one excellent Springfield kick from 30 yards went in the far upper corner of the goal. Two minutes later, a corner kick resulted in a deflected shot goal and a 2-0 lead for the home eleven. The rest of the first half was scoreless.

The second half was also played mostly in the Engineer end. With the continued pressure, scoring seemed to be inevitable, and two more goals were tallied. Springfield's scores at 15 minutes and 30 minutes were on unspectacular plays.

The whole team played hard, but the defense had the most work. Frieder Krups '77 returned from an injury to play fullback, and was a welcome sight with a very strong performance.

Playing one of the top teams in New England and keeping the game respectable was not as gratifying as a win. However, upcoming games against more evenly matched opponents should improve MIT's record. The Engineers' next game is today at 3:00, against Tufts University at Briggs Field.

## V-ball tops Northeastern for fifth straight victory

By Caren Penso

The MIT women's volleyball team extended its winning streak to eleven regular season matches when it trounced Northeastern University Thursday night 15-4, 15-10, bringing MIT's record so far this season to 5-0. More important than the win, however, was the spectator turnout, as about 40 people gathered in duPont Gymnasium to watch the MIT squad square off against a school well-known for its phys-ed majors and athletic dominance.

MIT started off slowly as its first five servers were unable to serve the ball in the court. Northeastern, however, was only able to rack up four points as the MIT defense, anchored by Lisa Albright '78 and Sue Coppersmith '78, bought off the attack.

MIT mounted its offensive attack when Karyn Altman '78 started to serve. Spikers Linda Yester '76 and Sheila Luster '78 found holes in the Northeastern defense while Coppersmith and Lisa Jablonski '77 set them up.

From that point on the MIT defense did not allow the

stunned Northeastern squad to score again. Coppersmith ended the game with a rocket serve that fell untouched for an ace.

In the second game MIT started slowly again. Down 5-3, the team battled back to score eleven consecutive points before allowing Northeastern to draw closer at 14-10. Jablonski then served out the game for MIT.

The 'B' team also brought its season record to 5-0 by punishing Northeastern 'B' 15-1, 15-3.

The teams' next home matches are tonight at 7:30pm against Eastern Nazarene and Thursday at 7:30pm against Boston College.

## Sporting Notices

Rosters for IM Basketball must be submitted to the IM Basketball mailbox by 5pm tomorrow. No further team entries will be accepted.

A captain clinic will be held Thursday at 7:30pm in room 1-230. All teams must send a representative to one clinic (one was held last night).

\* \* \*

Women's swimming team practice begins Monday at 4pm at Alumni Pool. All in-

terested in competing for the team should attend the first practice.

\* \* \*

Starting Friday, November 7, all users of duPont Gym and locker room must present a pass card, obtainable at the equipment desk, to the gym supervisor at the gym door, (weekends only). Reasons for the new policy are to screen out non-MIT people, to reduce locker thefts, and to insure an efficient reservation program on the gym floor.

## Service, not service charges.

Good service isn't something you should have to pay for. So when you buy car, apartment, or any insurance from us, there's no service charge tacked on.

And we'll only sell you what you need.

**W.T. Phelan & Co.**  
Insurance Agency Inc. Since 1898

11 Dunster St., Harvard Square (next to the Holyoke Center).  
876-0876. Representing Aetna, Travelers, Hartford.

## Stanford MBA

REPRESENTATIVE  
COMING TO CAMPUS  
NOVEMBER 6 and 7

A representative of the Stanford Graduate School of Business will be on campus to discuss with interested students the exceptional educational opportunity of the Stanford MBA Program.

Appointments may be made through  
The Career Planning and Placement Office

The Stanford MBA program is a two-year general management course of studies designed for highly qualified men and women who have majored in liberal arts, humanities, science, or engineering, and wish to develop management skills to meet the broad responsibilities which will be required in both the private and public sectors in the future.

THE STANFORD UNIVERSITY  
GRADUATE SCHOOL OF BUSINESS  
Stanford, California 94305

**ECONO-CAR  
OF CAMBRIDGE**  
**905 MAIN ST.**

Corner of Mass. & Main  
(617) 492-3000

Economy Cars  
15-Seat Passenger Vans  
Cargo Vans

Air about our

**\$3.99** mileage  
business day and overnight special  
Call 7-9005-1-5000  
for toll free reservations